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L11: Entry 1 of 1   File: USPT   May 20, 2003

US-PAT-NO: 6567745
DOCUMENT-IDENTIFIER: US 6567745 B2

TITLE: System and method for distributed navigation service

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuchs; Axel	Park Ridge	IL		
Bullock; James Blake	Gilbert	AZ		
Gee; Robert A.	Tempe	AZ		
Gonsalves; Stanislaus	Elgin	IL		
Kohley; Jeffrey	Carol Stream	IL		
McNulty; Mark	Carol Stream	IL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Motorola, Inc.	Schaumburg	IL			02

APPL-NO: 10/ 184755   [PALM]
DATE FILED: June 28, 2002

PARENT-CASE:
RELATED U.S. APPLICATION DATA Continuation of Ser. No. 09/667,354, Sep. 22, 2000,
now issued as U.S. Pat. No. 6,421,607.

INT-CL: [07] G01 C 21/00

US-CL-ISSUED: 701/209; 701/211, 340/988
US-CL-CURRENT: 701/209; 340/988, 701/211

FIELD-OF-SEARCH: 701/25, 701/117, 701/118, 701/119, 701/201, 701/209, 701/211,
340/905, 340/988, 340/990, 340/995

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4812843	March 1989	Champion, III et al.	

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☐   <u>5760713</u>   June 1998   Yokoyama et al.

☐   <u>5790974</u>   August 1998   Tognazzini

☐   <u>6421607</u>   July 2002   Gee et al.   701/209

ART-UNIT: 3661

PRIMARY-EXAMINER: Beaulieu; Yonel

ATTY-AGENT-FIRM: Wills; Kevin D.

ABSTRACT:

A distributed navigation system and method for providing driving instructions to a
user. The system includes a service center having a navigation server and
associated workstations. The service center stores driving instructions in a
continuously updated map database. In response to a user request the instructions
are transmitted by way of a wireless network to a client device residing in the
user vehicle. The instructions are assembled into sequential stepwise driving
directions and stored in a storage device in the client device. Commands from the
user trigger playback of the driving instructions in a stepwise fashion.

20 Claims, 4 Drawing figures

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Detailed Description Text (4):
A vehicle client device 10 is located in the vehicle 8 (generally depicted by the
dashed lines at reference character 8). As shown in more detail in FIG. 2, the
client device 10 includes a voice command and control system 12. The voice command
and control system 12 provides automatic voice recognition of voice communication
from the user. The voice command and control system 12 processes voice
communications to determine whether a spoken word or speech pattern matches any of
the stored grammars or vocabulary. When the system 12 identifies a speech pattern,
the system sends an output signal to implement the specific function associated
with the specific pattern to the audio decoding and playback portion 14. Many or
all of the functions capable of being effected by the voice command system 12 are
capable of being controlled by control buttons 18 on the client device.